

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
BSST.001CP2APPLICATION NO.
10/642,773INFORMATION DISCLOSURE STATEMENT
BY APPLICANTAPPLICANT
Lon E. BellFILING DATE
August 18, 2003GROUP
Unknown

3744

USE SEVERAL SHEETS IF NECESSARY)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
mf	1	3,006,979	10-31-61	Rich			
	2	3,126,116	04-24-64	Clinehens			
	3	3,635,037	01-18-72	Hubert			
	4	3,681,929	08-08-72	Schering			
	5	3,779,814	12-18-73	Miles et al.			
	6	4,065,936	01-03-78	Fenton et al.			
	7	4,281,516	08-04-81	Berthet et al.			
	8	4,494,380	01-22-85	Cross			
	9	4,730,459	03-15-88	Schlicklin et al.			
	10	4,731,338	03-15-88	Ralston et al.			
	11	4,989,626	02-05-91	Takaga et al.			
	12	5,092,129	03-03-92	Bayes et al.			
	13	5,097,829	03-24-92	Quisenberry			
	14	5,228,923	07-20-93	Hed			
	15	5,232,516	08-03-93	Hed			
	16	5,429,680	07-04-95	Fuschetti			
	17	5,584,183	12-17-96	Wright et al.			
	18	5,592,363	01-07-97	Atarashi et al.			
	19	5,605,047	02-25-97	Park et al.			
	20	5,682,748	11-04-97	De Viilbiss et al.			
	21	5,802,856	09-08-98	Schaper at al.			
	22	5,860,472	01-19-99	Batchelder			
	23	5,867,990	02-09-99	Ghoshal			
	24	5,900,071	05-04-99	Harman			
	25	5,921,088	07-13-99	Imaizumi et al.			
	26	5,966,841	10-19-99	Ghoshal			
mf	27	5,987,890	11-23-99	Chiu et al.			

EXAMINER

Mdrns

DATE CONSIDERED

7/27/05

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
WJ	28	6,082,445	07-04-00	Dugan			
	29	6,084,172	07-04-00	Kishi et al.			
	30	6,096,966	08-01-00	Nishimoto et al.			
	31	6,319,744	11-20-01	Hoon et al.			
	32	6,334,311	01-01-02	Kim et al.			
	33	6,346,668	02-12-02	McGrew			
	34	6,347,521	02-19-02	Kadotani et al.			
	35	6,401,462	06-11-02	Bielinski			
	36	6,446,442	09-10-02	Bathelor et al.			
	37	6,477,844	11-12-02	Ohkubo et al.			
	38	6,481,213	11-19-02	Carr et al.			
	39	6,530,231	03-11-03	Nagy et al.			
	40	6,510,696	01-28-03	Guttman et al.			
WJ	41	6,650,968	05-13-03	Ko			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
WJ	42	JP 4-165234	06-11-92	Japan (with English translation)				
WJ	43	JP 56-18231	02-20-81	Japan (with English translation)				

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER INITIAL		
WJ	44	International Search Report for PCT/US 02/06285 dated 05-11-02.
	45	International Search Report for PCT/US 02/03654 dated 05-20-02.
	46	International Search Report for PCT/US 02/03659 dated 07-09-02.
	47	International Search Report for PCT/US 02/25233 dated 09-24-02.
WJ	48	International Search Report for PCT/US 03/17834 dated 07-29-03.

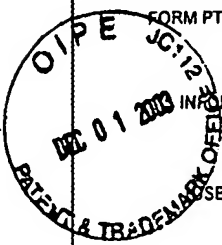
EXAMINER

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DATE CONSIDERED

7/27/05

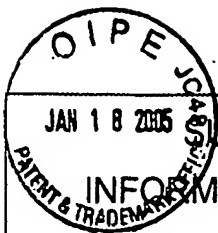
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. BSST.001CP2	APPLICATION NO. 10/642,773
	APPLICANT Lon E. Bell	
	FILING DATE August 18, 2003	GROUP Unknown 3744

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
MJ	49 A New Concept for Improving Thermoelectric Heat Pump Efficiency, R.J. Buist, J.W. Fenton and J.S. Lee, Borg-Warner Thermoelectrics Wolf and Algonquin Road
	50 Tada, Shigeru, et al., A New Concept of Porous thermoelectric Module Using a Reciprocating Flow for Cooling/Heating System (Numerical Analysis for Heating System), 16 th International Conference on Thermoelectrics (1997)
	51 Goldsmid, H.J., <u>Electronic Refrigeration</u> , Pion Ltd., 207 Brondesbury Park, London (1986)
	52 Angrist, Stanley W., <u>Direct Energy Conversion</u> , 32 Ed. Ally & Bacon (1976)
	53 Miner, A., Majumdar, A., and U. Ghoshal, Thermo-Electro-Mechanical Refrigeration Based on Transient Thermoelectric Effects, <u>Applied Physics Letters</u> , Vol. 75, pp. 1176-1178 (1999)
	54 Buist, R. and Lau, P., Theoretical Analysis of Thermoelectric Cooling Performance Enhancement Via Thermal and Electrical Pulsing, <u>Journal of Thermoelectricity</u> , No. 4, 1996.
	55 Copending U.S. Application No. 09/844,818 filed on April 27, 2001 (Atty No. 001A) and pending claims
	56 Copending U.S. Application No. 10/227,398 filed on August 23, 2002 (Atty No. 001CP1) and pending claims
	57 Copending U.S. Application No. 09/860,725 filed on May 18, 2001 (Atty No. 002A) and pending claims
	58 Copending U.S. Application No. 10/632,235 filed on July 31, 2003 (Atty No. 002C1) and pending claims
	59 Copending U.S. Application No. 09/918,999 filed on July 31, 2001 (Atty No. 002CP1) and pending claims
	60 Copending U.S. Application No. 10/215,613 filed on August 7, 2002 (Atty No. 004A) and pending claims
	61 Copending U.S. Application No. 09/987,232 filed on November 6, 2001 (Atty No. 006A) and pending claims
	62 Copending U.S. Application No. 10/074,543 filed on February 11, 2002 (Atty No. 008A) and pending claims
MJ	63 Copending U.S. Application No. 10/164,656 filed on June 6, 2002 (Atty No. 009A) and pending claims

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EXAMINER Mellon W	DATE CONSIDERED 7/27/05
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PTO/SB/08 Equivalent

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Multiple sheets used when necessary) SHEET 1 OF 1	Application No.	10/642,773
	Filing Date	August 18, 2003
	First Named Inventor	Lon E. Bell
	Art Unit	3744
	Examiner	Melvin Jones
	Attorney Docket No.	BSST.001CP2

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
M	1	4,297,841	11/03/1981	Cheng	
	2	6,367,261 B1	04/09/2002	Marshall et al.	
	3	6,539,725 B2	04/01/2003	Bell	
	4	6,598,405 B2	07/29/2003	Bell	
	5	6,625,990 B2	09/30/2003	Bell	
	6	6,637,210 B2	10/28/2003	Bell	
	7	6,672,076 B2	01/06/2004	Bell	
	8	2003/0094265 A1	05/22/2003	Chu et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
M	9	PCT/US2004/026560 ISR	08/16/2004	BSST LLC		
	10	GB 2 027 534 A	02/20/1980	Air Industrie		
	11					
	12					
	13					

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
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	15		
	16		
	17		

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Examiner Signature	<i>Melvin Jones</i>	Date Considered	<i>1/25/05</i>
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

T¹ - Place a check mark in this area when an English language Translation is attached.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Lon E. Bell	GROUP 3712
		FILING DATE August 18, 2003	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
ms	3,663,307	05/16/72	Mole			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER INITIAL	

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031604

EXAMINER	DATE CONSIDERED
<i>ms</i>	1/27/05

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